(124125246) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison

05/05/2010 12:52 PM

01.Name:Thomas Kryzak
02.Organization:Enviromental Lunch Box Technology LLC
03.Email:tomkryzak@gmail.com
04.Phone:518-355-2005
05.Type:technology, process, system
06.Briefdesc:US patents 7264713, 7699982,7578248 that work at removing and treating contaminated materials in an aquatic enviroment and revitalizing the plant, shellfish, biota and such.
07.Perfcriteria:Contaminants sampling, recovery and removal.
08.Cost:Enviro Lunch Boxes capable of oil recovery throught out the water column and on the water bottoms. Costs for fabrication and use would be site specific. Estimated costs per 20x20 ft units outfitted to work with watercrafts used to collect the moving oil plume would be estimated at $250K each. Cost based without review of current site or field data. A $250K on-site setup, rampup and supplies cost is anticipated.
09.Throughput:A 6 inch recovery line captures 5052 gallons per minute
10.fieldtested:yes
11.Fieldtestingdesc:A December 2009 project for the Department of Energy done for the US Navy at Knolls Atomic Power Laboratory and administered by Bechtel Marine Propulsion Industries was completed using the patented technology listed.
button:Send

This information is for tracking purposes only.
Submitting script: /cgi-bin/mail.cgi
Submitting host: cpe-74-70-41-96.nycap.res.rr.com (74.70.41.96)
Browser: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; MDDC)
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt

(124092453) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison

05/05/2010 09:24 AM

```
01.Name:Stafford King
02.Organization:S J King Co, LLC
03.Email:staffk@earthlink.net
04.Phone:860 282-2669
05.Type:technology
06.Briefdesc:A new, but proven green technology to address the remediation
issue facing the Gulf oil spill. http://www.verutek.com/ Please read the
testimonials on this web site.  Thank you for giving this your attention
07.Perfcriteria:http://www.verutek.com/
08.Cost:
09.Throughput:
10.fieldtested:yes
11.Fieldtestingdesc:World wide:  http://www.verutek.com/
button:Send
-----------------------------------------------
WARNING NOTICE
This electronic mail originated from a federal government
computer system of the United States Environmental
Protection Agency (EPA).  Unauthorized access or use
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Submitting host: ip72-195-143-18.ri.ri.cox.net (72.195.143.18)
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Gecko/20100401 Firefox/3.6.3 (.NET CLR 3.5.30729)
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt
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(124051455) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison

05/05/2010 05:14 AM

01.Name:Mark Breiter
02.Organization:CarbonZero Project, Aria Media Sagl
03.Email:m.breiter@carbonzero.ch
04.Phone:+41 76 303 4477
05.Type:technology, process
06.Briefdesc:Charcoal, produced at 300 - 360 degrees C in fine particles from sawdust, has been demonstrated to be hydrophobic and yet oleophilic, making it an excellent absorbent of oil, especially oil floating on water. It apparently has been marketed in the early 1990's for this purpose under the name "Sea Sweep". We have developed a low-cost, continuous feed technology to produce charcoal for agriculture (biochar) that may be appropriate for this purpose. The units are simple in design and could be rapidly constructed to produce the needed char in significant volumes.
07.Perfcriteria:Literature I've located so far indicates that the char particles, deployed from a boat or plane, absorb 80% of their weight in oil, congeal, and remain floating. They can then be collected and used for fuel, or composted. Even if some particles remain in the environment, the oil is retained within the char particles and eventually decomposes.
08.Cost:As yet undetermined
09.Throughput:
10.fieldtested:yes
11.Fieldtestingdesc:By Thomas Reed of Sea Sweep Inc in the early 1990's. He apparently was given an EPA grant to do so. I could try and contact him if there is interest in deploying this technology - he is long since retired.
button:Send

This information is for tracking purposes only.
Submitting script: /cgi-bin/mail.cgi
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Browser: Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_5_8; en-US) AppleWebKit/533.2 (KHTML, like Gecko) Chrome/5.0.342.9 Safari/533.2
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt

(125125132) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison, Lara Autry, Eric Koglin

05/06/2010 12:51 PM

01.Name:Brian Arnott
02.Organization:Glass Plus
03.Email:glassplus@charter.net
04.Phone:715-224-2572 cell (715-367-6242
05.Type:technology, process, system
06.Briefdesc:I would like you to go to www.glass-plus.net then go to video gallery 2 and go to the 5 minute mark and see the product work. The point of the video is at first I am showing the shoreline protection how water washes over the material and stays dry, then I am showing how the oil is absorbed(or attached to the glass) surface tension then by the water going over the absorbed material pushes it down onto where a screen would be placed to collect the material. Then after the water is evaporated out the oil absorbed glass can then be used as a fuel source in a coal fired power plant. Thank you for your time.
07.Perfcriteria:Glass is inert and oil adheres to it.
08.Cost:Cost of material is .065 cents a pound
09.Throughput:
10.fieldtested:yes
11.Fieldtestingdesc:Testing has been done at our facility and small scale testing can be done at your facility anytime, watching the video explains the concept
button:Send

This information is for tracking purposes only.
Submitting script: /cgi-bin/mail.cgi
Submitting host: tomahawk-nas1-213-115.dwave.org (206.176.213.115)
Browser: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US) AppleWebKit/532.5 (KHTML, like Gecko) Chrome/4.1.249.1064 Safari/532.5
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt

(125002634) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t o : Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison

05/06/2010 12:26 AM

01.Name:Andrew Householder
02.Organization:Gulf States Development Companies
03.Email:householder88@hotmail.com
04.Phone:251-923-8123
05.Type:technology, process, system
06.Briefdesc:My company has been working for several years developing plans for an oceangoing vessel that has the capability to separate oil from water through several stages and can process 500GPM of oil/water mixture. Our design incorporates skimmers, modified parallel plate separators, coalescing media, and a final stage centrifuge to spin any water free of the oily compounds at over 2000 G's. The concentrated oil can be pumped from our vessel to awaiting tankers and taken to shore for disposal while our vessel remains at sea working to separate. I am positive that our product will mitigate millions of dollars in damage and reduce claims by containing the wide spread of the contaminates in much less time than anything currently available. Using a chemical dispersant to break up the oil is not the solution and since it is virtually untested, could create even more problems for the gulf ecosystem. Burning the oil is a low cost method, however the byproducts from burning crud e are also not desirable for the gulf ecosystem. Our process has virtually zero impact, removes oil and leaves no byproduct.
07.Perfcriteria:Separate Oil/Water with up to 99% separation efficiency.
08.Cost:TBD by 5/10/10 (currently working with suppliers on equipment costs) We have a shipyard in Pensacola, FL on-board and ready for further orders. Ballpark preliminary estimates are 2 million per specialized separator vessel. Usage rates would depend on final equipment costs.
09.Throughput:500 GPM
10.fieldtested:yes
11.Fieldtestingdesc:Our initial prototype did very well to mechanically separate the oil from water. Every component of our system is field proven, and in conjunction is able to isolate and remove the oily compounds so clean water can be returned to the sea at a rate of 450GPM with up to 99% removal efficiency.
button:Send

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Browser: Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US; rv:1.9.2.3)

(126114233) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison, Lara Autry, Eric Koglin

05/07/2010 11:42 AM

01.Name:Darin Miner
02.Organization:Prior National HAZMAT responder for Air Force
03.Email:tazzer_dazzer@yahoo.com
04.Phone:850-457-2767
05.Type:process, system
06.Briefdesc:Dig a trench at the high tide mark on the beach. Line the beach side of trench with plastic tarp and you have a barrier to stop the oil from polluting the entire beach. If there are turtles they can easily swim across the barrier because the water level will be at sands height due to water table.
07.Perfcriteria:
08.Cost:Minimal depending on the length of beach to protect. In the long run it would be far cheaper than to decontaminate the entire beaches sand after this is over.
09.Throughput:
10.fieldtested:yes
11.Fieldtestingdesc:This type of barrier is used in HAZMAT mitigation.
button:Send

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Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt

(126142745) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison, Lara Autry, Eric Koglin

05/07/2010 02:27 PM

01.Name:Mike Millette
02.Organization:EE&G, Inc. Environmental Remediation Services, Dallas Texas: www.ee-g.com
03.Email:xasmikem@ti.com
04.Phone:214-882-5218
05.Type:technology, process, system
06.Briefdesc:Expertise in mobile high vac extraction, separation and storage of NAPL. EE&G uses cutting edge technology, processes and best practices geared toward subsurface remediation. EE&G proposes to use these proven techniques in horizontal-deep water recovery, separation and storage. Sinking the plumb is not the best solution, when skimming with separation and storage mitigates the long term impact to the environment!
07.Perfcriteria:EE&G would skim, separate and store 70,000 gallons/day per operational platform, stored in floating reserves for later processing.

08.Cost:By skimming the plumb, 70,000 gallons per day would be processed from the perimeter and break away plumbs at a cost of $5,500 per barrel.
09.Throughput:100 barrels per hour at full operations.
10.fieldtested:yes
11.Fieldtestingdesc:In subsurface land operations EE&G has 20 years of mobile extraction separation experience and success as can be verified with the Texas Commission of Environmental Quality, Senior Leadership on the Remediation Division.
button:Send

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Submitting host: (69.15.120.122)
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; Texas Instruments; [R1 1.3]; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt

(126151845) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov

t Jeffrey Levy, Minerva Rojo, Adrea
o Mehl, Reggie Washington, Kay
: Morrison, Lara Autry, Eric Koglin

05/07/2010 03:18 PM

01.Name:Patrick Barton
02.Organization:Portland Energy Strategies
03.Email:barton.pj@gmail.com
04.Phone:503.504.5239
05.Type:technology, process, system
06.Briefdesc:We propose to deploy an array of sub-surface oil concentration/collection devices to interdict the oil plume between its source and the surface. The elements of our system include individual, submerged, inverted funnels that will consolidate the oil and deliver it, on demand, to surface-based tender vessels. These elements work independently but can be deployed as a coordinated, but redundant, network.

Each element consists of a concave membrane for oil collection, a pump, and a demand-based activation mechanism. Each element is deployable using small watercraft such as shrimp boats, and each can be independently weighted/buoyed as required to ensure collection occurs at an optimal depth. Elements can be procured and assembled using locally-available or off-the-shelf materials.

If a more durable, rigid, or long-lasting solution is required these units can be constructed from interlocking icosahedra our team manufactures (cf. www.flextegrity.com).
07.Perfcriteria:Quantity of oil interdicted, concentrated, and collected.
08.Cost:In very rough terms, each modular unit can interdict a 2000 ft^2 horizontal cross-section of the oil plume and can be manufactured (using sailcloth) for ~$6K of materials and ~$2K labor (assuming a 25 ft. diameter hemispherical element). Call it $10K, conservatively.

The cost of deployment should be the going rate for the "Vessels of Opportunity". The cost of transfer of captured oil shouldn't exceed the marginal cost of handling oil skimmed from the surface.

Note that the unit cost ($/gallon retrieved) will vary depending on how aggressively the elements are deployed. Efforts to maximize total capture (employing sonar imaging, overlapping coverage in two horizontal planes, etc.) will increase the marginal cost. "High grading" to maximize each unit's contribution will lower it.
09.Throughput:Throughput will be a function of the number of elements used and the vertical flow of the plume at each point of deployment.

The individual elements themselves aren't constraints since the ordinary submersible pumps we envision can individually handle more than the 120K gallons/day of the leaks' combined output.
10.fieldtested:no
11.Fieldtestingdesc:
button:Send

(130150130) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov to: Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison, Lara Autry, Eric Koglin, thekogs2

05/11/2010 03:08 PM

01.Name:Jim Lynn
02.Organization:IEP
03.Email:Jim.Lynn@iepusa.com
04.Phone:610 935 7062
05.Type:technology
06.Briefdesc:A clean up and remiation process
07.Perfcriteria:coagulates oil shen into a gel
08.Cost:1/10 manual &chemical solutions
09.Throughput:1:1
10.fieldtested:yes
11.Fieldtestingdesc:International Environmental Products (IEP) owns and produces the patented solution for Oil Spill remediation on land, water and inside water born vessels. The unique process permanently, environmentally and most significantly solves the economical problem of oil spills, leaks and sheens on water. OilGoneâ„¢ S-200 is a safe and easy to use bioremediation accelerator using normally found indigenous bacteria to degrade the hydrocarbon. It has been universally and internationally used on the Prestige tanker spill off coast of Spain to the Valdez in Alaska to gas station clean ups to home driveway spills.

I have attached some information for you to review. Please contact Jim Lynn to discuss how we can work together in the future.

Jim Lynn
President & CEO
RBL Environmental, llc
Two Villanova Center
795 E Lancaster Ave., Suite 280
Villanova, PA 19085

610 520 7665 work
610 520 7663 fax
484 432 7922 mobile

www.iepusa.com

button:Send

(130152457) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov to: Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison, Lara Autry, Eric Koglin, thekogs2

05/11/2010 03:26 PM

01.Name:Dave Thomas
02.Organization:Thomas Contracting
03.Email:Thomascontracting@Gmail.com
04.Phone:443-225-1064
05.Type:technology
06.Briefdesc:French Drain
07.Perfcriteria: In regards to containing and collecting the oil in the Bay, there is a material know as a French Drain Pipe provided by NDS and Infiltrator Systems. The pipe is made to go underground, however I believe it could be used to create a barrier on the outside of the buoys that you are now putting in place to protect the shore line. The makeup of the drain is as follows: A four inch PVC, flexible 10â€™ lone pipe is wrapped in a 2â€ sleeve made of cotton, filled with Â½â€ Styrofoam chips, and sealed on both ends, totaling 8â€ in dimension. You can link the 10â€™ sections with the existing connectors or add an additional threw pin to keep them from coming apart. By taking 1000 feet of this pipe, connecting them with the proper factory fittings or adding additional couplings to hold them in place, you would be able to run a Â¾â€ nylon rope through the center of the pipe giving you the ability to pull it out of the water in order to drain the Styrofoam fill
ed areas with rollers, effectively spilling off excess oil and allowing the Drain to re-enter the water as such a thing known as a trout line used in the crabbing industry. This would be on the exterior/ocean side of the buoys. It is readily available but the quantity would be questionable.
Contact Tech service 800-577-4436 (www.infiltratorsystems.com)
A direct contact number for the person Iâ€™ve already spoken to is 860-577-7035 (Jim). Jim assured me that they would be able to manufacture the Styrofoam sleeve in a tube, without a tube, and at any size and any kind that would be considered best for oil absorption.

Sincerely,

David Thomas

08.Cost:
09.Throughput:
10.fieldtested:no
11.Fieldtestingdesc:
button:Send

(130161752) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov to: Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison, Lara Autry, Eric Koglin, thekogs2

05/11/2010 04:18 PM

01.Name:Dr Abe Beagles
02.Organization:Cal-Neva Water Quality Assurance Institute,LLC
03.Email:gerrybeagles@aol.com
04.Phone:916-434-7880
05.Type:technology, process, system
06.Briefdesc:Electro coagulation is a unit or system that destroys any carbon or hydrocarbon that passes through its electodes and removes oil from water.
07.Perfcriteria:EC removes 100% of all oils from water, removes up to 97% of all heavy metals from water.
08.Cost:100 gallon per minute unit sells for $86,000 and if we are paid by the barrelit is $3.15 per barrel(42 Gal. barrel). If by the gallon we get from 8 to 12 cents per gallon.
09.Throughput:Existing unit is 100 GPM Unit being built is 500 GPM.
10.fieldtested:yes
11.Fieldtestingdesc:These units recycle flow back and produced water coming from the drilling of natural gas wells in Texas into the formation known as the Barnett Shale and we have been doing it since 2003. We also work with the BLM in California in Acid Mine Drainage cleanup. We have shown EPA how to remediate the three worst Super Fund sites in America since 2003. We are EPA certified and we are a CCR contractor to the government and our TPIN no. is 18812998. We are also schedulaed to come onboard to work with EPA on the Flu Gas Discharge Waters coming out of Coal Fired Power Plants.
button:Send

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Browser: Mozilla/4.0 (compatible; MSIE 7.0; AOL 9.1; AOLBuild 4334.36; Windows NT 5.1; Trident/4.0)
Referred: http://www.epa.gov/bpspill/techsolution.html
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Mail to File: bpspilltech.txt

(131114315) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov to: Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison, Lara Autry, Eric Koglin, thekogs2

05/12/2010 11:43 AM

01.Name:Mikayo Molisee
02.Organization:
03.Email:mikayom@hotmail.com
04.Phone:724-258-4722
05.Type:technology, process
06.Briefdesc:Cleanup and containment with finely woven stainless steel cloth. The stainless steel cloth looks like a mesh but it isn't a typical wire mesh. It is very finely woven. Much finer than what you see at the hardware store. I feels almost like a cloth. Since it is so finely woven that it lets the water go through but the grease or oil stays on top. You can either attach to vessel to 'round up'. Or if you keep this right underneath where the oil floats with high wall, you can even move a section of oil elsewhere and keep it contained. I use a scoop made with this wire mesh to scoop very heavy grease on top of my food. It is very very effective. Since it will let the liquid through it is more efficient to remove grease. I'm sure you can procure quite a lot of square footage of this material attached to boat or floater to cotain and move the already spilt oil. If you need to see the photo, please let me know I will be glad to email the close-up photo of this material.
07.Perfcriteria:You can use this to simply contain the spill within a certain perimeter where you will then be able to use other equipment to pump into another container.
08.Cost:Unknown
09.Throughput:
10.fieldtested:no
11.Fieldtestingdesc:Only in the small scale. But I don't see why it wouldn't work in the larger scale.
button:Send

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Submitting script: /cgi-bin/mail.cgi
Submitting host: c-76-120-149-235.hsd1.pa.comcast.net (76.120.149.235)
Browser: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; WOW64; Trident/4.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; Media Center PC 5.1; .NET CLR 3.5.30729; .NET CLR 3.0.30618)
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
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(131142431) Oil Spill Technology Solution

idaemon.rtpnc.epa.gov to: Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison, Lara Autry, Eric Koglin, thekogs2

05/12/2010 02:24 PM

01.Name:Matthew Fidler
02.Organization:Yodock Wall Company
03.Email:mfidler@yodock.com
04.Phone:570-242-2578
05.Type:system
06.Briefdesc:beachfront, low water, and marsh barrier
07.Perfcriteria:can be placed to block oil/water mixtures at varying water levels.
08.Cost:Can block one mile (5280 feet) for $208K. 100% reusable after the situation is mitigated.
09.Throughput:www.yodock.com
10.fieldtested:yes
11.Fieldtestingdesc:in various uses. South FL for protection on the beach. USACE (Vicksburg facility) for wave mitigation. Several others.
button:Send

This information is for tracking purposes only.
Submitting script: /cgi-bin/mail.cgi
Submitting host: d-72-9-30-4.cpe.metrocast.net (72.9.30.4)
Browser: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; GTB0.0; .NET CLR 1.1.4322; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729)
Referred: http://www.epa.gov/bpspill/techsolution.html
TSSMS: emergenc
Mail to File: bpspilltech.txt
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idaemon.rtpnc.epa.gov

(123190855) Oil Spill Technology Solution

t o : Jeffrey Levy, Minerva Rojo, Adrea Mehl, Reggie Washington, Kay Morrison

05/04/2010 07:08 PM

01.Name:Daya Apunte
02.Organization:Inviro Design & Consulting
03.Email:daya@invirodesign.com
04.Phone:(828) 242-8722
05.Type:technology, process, system
06.Briefdesc:1. Surface Oil Isolation/ Absorption Rope

Create a 6-8â€ thick rope that is attached to buoys/flotation ropes/devices (as used in pools and lakes to separate sections of swimming areas) and several miles long to encompass most of the surface oil. As needed, additional rope could be added to widen the surface area of additional oil, yet prevent it from reaching the shoreline.

2. High-volume Oil Skimmers attached to Marine/Industrial Oil Separators.

Use 100 floating weir skimmers to feed oil rich water to 100 oil water separators.
(ability to skim and collect 20 gpm of oil out of the total 45 gpm oil-water mix, which feeds the separator)
100 separators can separate 2,880,000 gallons of oil/24 hours. Attach hoses and tanks to the separator to reclaim the lost oil.

To collect water-oil from deeper under the surface, connect hoses to the separator and withdraw the water-oil up to the separator.

07.Perfcriteria:Each oil separators can process 28,800 gallons of oil/day. If 100 separators = 2,880,000 gallons of total oil processed/day.
08.Cost:Call for pricing
09.Throughput:Materials:
1a. 100+ miles of 6"-8" rope made from Kenaf fibers (an excellent absorber, as used in previous oil spills). Biotechmills.com is the largest producer of Kenaf in the US.

1b. Several hundred buoys or 100+miles of flotation ropes

2. Pipes to transfer separated oil to collection tanks.

Equipment:
1. Rope manufacturing equipment

2a. 100 oil skimmers: http://www.skimoil.com/oil_skimmers.htm
2b. 100 oil separators: http://www.skimoil.com/marine_oil_water_separators.htm

-Brute/B Model 60(33): BBOWS 45
10.fieldtested:yes
11.Fieldtestingdesc:Kenaf (& vetiver: bio-remediation) use:
http://www.irinnews.org/report.aspx?reportid=29816

Oil Skimmers & Oil Separators currently used in industries

button:Send
